

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A radio frequency device, comprising:

a signal layer having radio frequency (RF) transmission lines disposed over a ground plane, the RF lines configured and dimensioned to provide impedance matching along the RF lines; and

a shield formed as a part of the RF lines and disposed below an RF choke of a DC current supply to form an intermediate capacitance between the choke and the shield to control parasitic effects wherein the intermediate capacitance and impedances of the parasitic effects form a ~~Wheatstone Bridge type~~ circuit which controls the parasitic effects; wherein a balance between the intermediate capacitance versus the parasitic effects is achieved to provide a flat or peaked transmission response over a selected frequency range, and the balance includes:

$C_s/C_g \geq R_l/R_m$ where C_s is the intermediate capacitance, C_g is a parasitic capacitance between the choke and the ground plane, R_m is a matching resistance and R_l is the load.

2. (Original) The device as recited in claim 1, wherein the device includes an optical transceiver having a laser biased by the DC current supply.

3. (Canceled)

4. (Canceled)

5. (Canceled)

6. (Original) The transceiver as recited in claim 1, further comprising a submount for supporting the choke.

7. (Previously Presented) The transceiver as recited in claim 1, wherein the RF lines supply AC signals to a laser diode.

8. (Original) The transceiver as recited in claim 7, further comprising a lens to focus light output from the laser diode.

9. (Original) The transceiver as recited in claim 1, further comprising a photodiode.

10. (Previously Presented) An optical transceiver, comprising:

a substrate having a signal layer formed thereon, the signal layer having radio frequency (RF) transmission lines disposed over a ground plane, the RF lines configured and dimensioned to provide impedance matching along the RF lines, the RF lines having a portion forming a shield;

the shield being disposed below an RF choke of a DC current supply to form an intermediate capacitance between the choke and the shield to control parasitic effects wherein a balance between the intermediate capacitance versus the parasitic effects is achieved to provide

a flat or peaked transmission response over a selected frequency range, the balance includes:

$C_g/C_p \geq R_l/R_m$ where C_g is the intermediate capacitance, C_p is a parasitic capacitance between the choke and the ground plane, R_m is a matching resistance and R_l is the load; and

a laser modulated in accordance with RF signals transmitted by the RF lines.

11. (Original) The transceiver as recited in claim 10, wherein the laser is biased by the DC current supply.

12. (Currently Amended) The transceiver as recited in claim 10, wherein the intermediate capacitance and impedances of the parasitic effects form a ~~Wheatstone Bridge type~~ circuit which controls the parasitic effects.

13. (Canceled)

14. (Canceled)

15. (Original) The transceiver as recited in claim 10, further comprising a submount for supporting the choke.

16. (Original) The transceiver as recited in claim 10, further comprising a lens to focus light output from the laser.

17. (Currently Amended) The transceiver as recited in claim 10, further comprising a photodiode.

18-25. (Canceled)